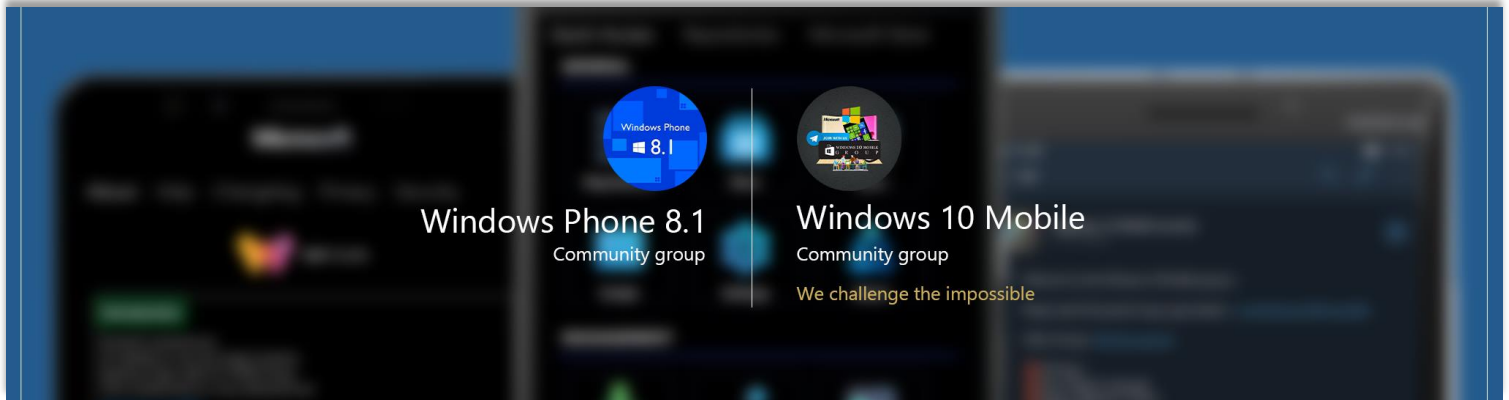# HOW TO INTEROP UNLOCK

X50 LUMIA

DEVICES

CLASSIC METHOD

Requirements

❖ A Windows PC (Minimum: Windows 7 SP1 | Recommended: Windows 8 OR above)

❖ X50 Lumia Device (Details in Introduction)

W10M Group YouTube Channel

 YOUTUBE

Apart from these documented Guides, we have started the roll up of Video Versions of each guide in our YouTube Channel.

Don't forget to **like** and **subscribe**!

How to Interop Unlock X50 Lumia Devices

 YOUTUBE

You can follow the video version of this guide as well if you prefer video guidance!

HOW TO **INTEROP UNLOCK**

X50 LUMIA DEVICES

> *What are X50 Lumia Devices?*
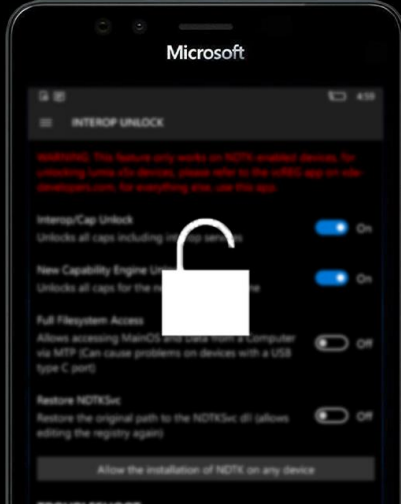> *Interop Unlock X50 Lumia Devices*
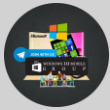> *Frequently Asked Questions (FAQ)*

Table of Contents

X50-SERIES

INTEROP UNLOCK

COMPLETE GUIDE

Introduction

What exactly is Interop Unlock and do you really need it?

YES, this unlock is mandatory if you are to enjoy your Windows Phone now, here's what it does;

- This whole procedure will give you read and write access to almost most of the registry hives and keys.
- It will also remove the sideloadable package limit of the developer mode hence you can deploy unlimited number of apps apart from installing via Microsoft store.
- Also, this will enable new app capabilities that are restricted otherwise which are being used in third party sideloadable apps (*Mostly power user / Advanced*)

Also, beaware that **Interop tools application is not the same as Interop Unlock**, it's just a tool which autoamtes the Unlock procedure in supported Devices.

That means merely installing the app doesn't mean the device is Interop Unlocked!

What are X50 LUMIA?

Microsoft's last generation Lumia line-up is classed as X50 Lumia.

Lumia 550, 650, 950 & 950 XL are the X50 Devices and they are the only LUMIA devices Shipped with Windows 10 Mobile out of the box!

Are there any pre-requirements?

NO.

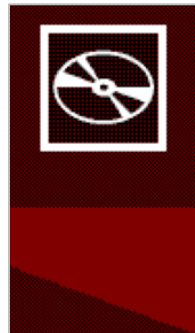This can be done even on a newly reset device as well.

Preparations

Download WP Common packaging tools & install it.

	W.U.T		MEGA

Welcome to the Windows Phone Common Packaging and Test Tools (NT_x86_fre) Setup Wizard

The Setup Wizard allows you to change the way Windows Phone Common Packaging and Test Tools (NT_x86_fre) features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
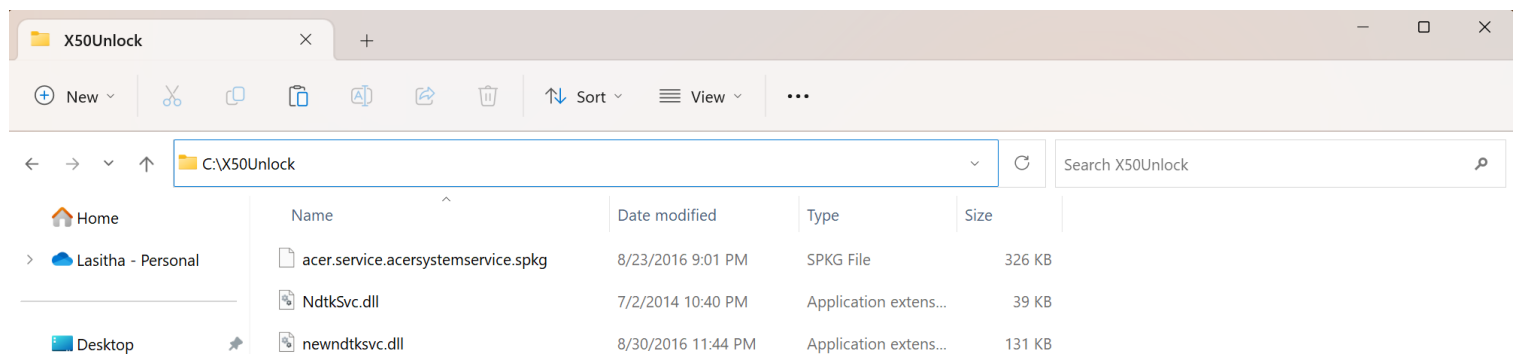
Download "X50Unlock" ZIP file & extract it to the root drive of your PC.

	MEGA		DROPBOX

X50Unlock

New · · · Sort · View · · · ·

C:\X50Unlock · Search X50Unlock

Name	Date modified	Type	Size
Home			
Lasitha - Personal	acer.service.acersystemservice.spkg	8/23/2016 9:01 PM	SPKG File	326 KB
	NdtkSvc.dll	7/2/2014 10:40 PM	Application extens...	39 KB
Desktop	newndtksvc.dll	8/30/2016 11:44 PM	Application extens...	131 KB

Download VCREG & install in your Lumia.

	W.U.T		MEGA		DROPBOX

vcreg10_1.7.0.0_arm_Debug.appxbundle	4/20/2017 3:40 AM	APPXBUNDLE File	6,891 KB

Download Interop Tools & Install in your Lumia.

	GITHUB		W.U.T		MEGA		DROPBOX

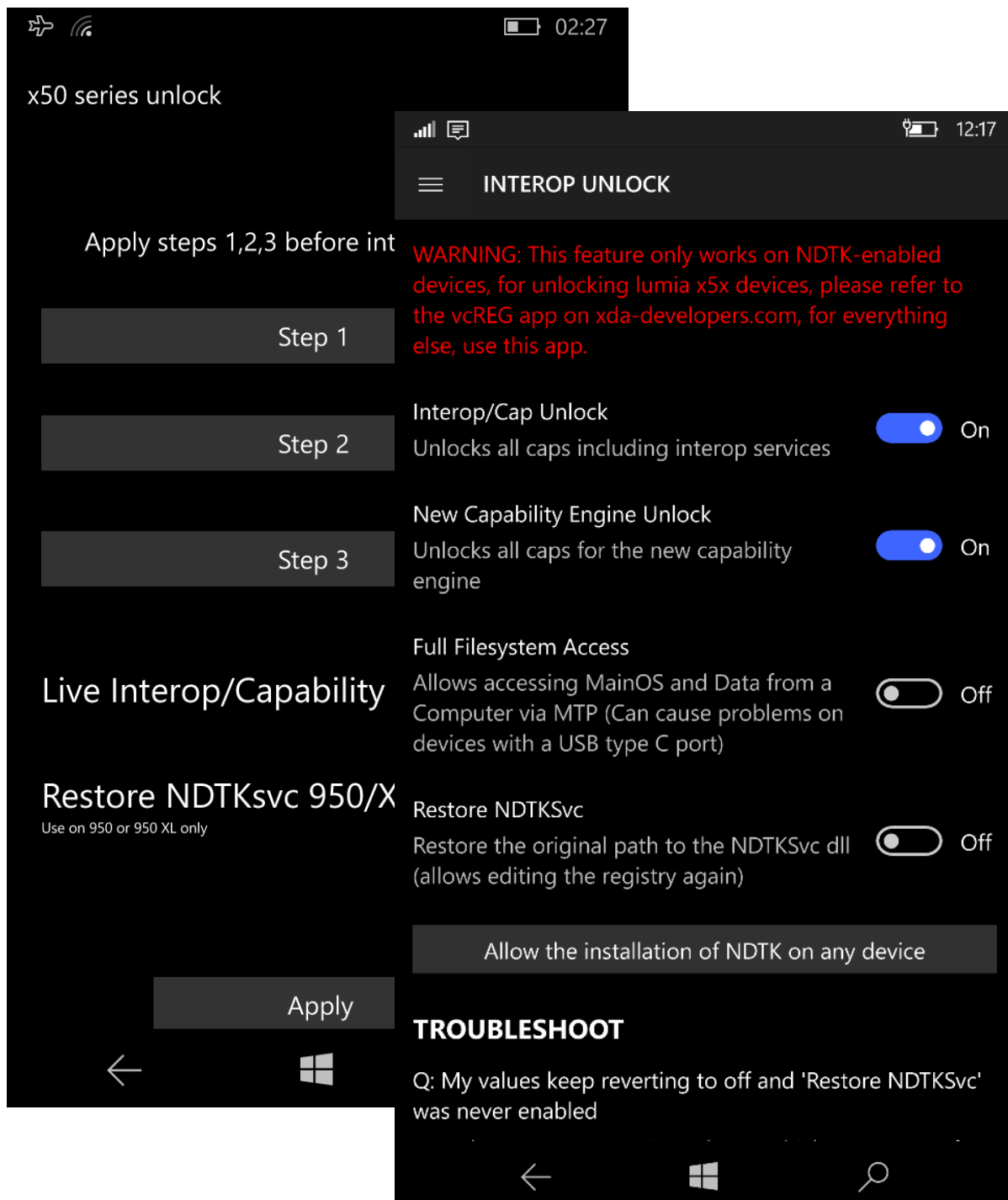| InteropTools_2.1.24.0_arm_LegacyReleas...	10/19/2021 1:52 AM	APPXBUNDLE File	16,801 KB

NOTE: Only Interop Tools **2.0.95 / 2.1.24** or newer Versions are compatible to use with this guide, **go with the latest!**

Interop Unlock X50 LUMIA

To make it easy for you to follow this guide, I will divide the complete procedure to two main parts.

1. PART 1: VCREG Unlock.
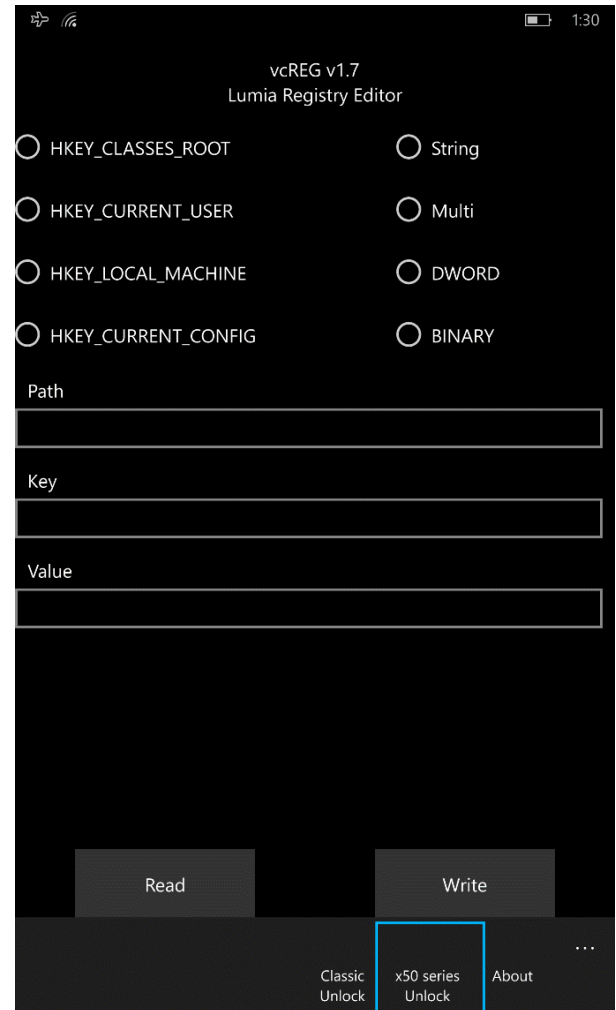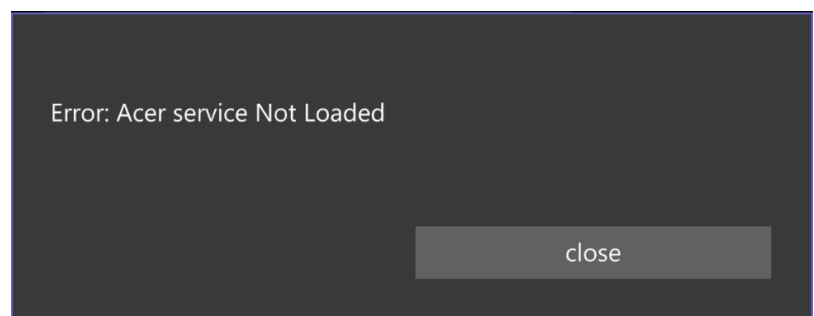
2. PART 2: INTEROP TOOLS Unlock.

PART 1: VCREG Unlock

> Open VCREG application.

> Click on **X50 series Unlock** in the bottom tool bar of the app.

> You will be presented with an error message stating "**Error: Acer service not loaded**"

This is completely normal!

> Click Close and proceed to the next step.

> To start the unlock, click **STEP 1** button.

> Then it will display what we have to do, which is to Push the Acer SPKG & place the two DLL files to Documentes of the phone.

Click close and suspend the application by clicking the windows button in navigation bar.

> Now, connect your phone to PC via a USB Connection.

First of all, let's move the two DLC files to the phone.

> Move the **newndtksvc.dll** & **ndtksvc.dll** files which were in the X50Unlock ZIP we downloaded in the preparations to the **Documents** folder of your Lumia.

(*Move only to Documents folder, no where else!*)
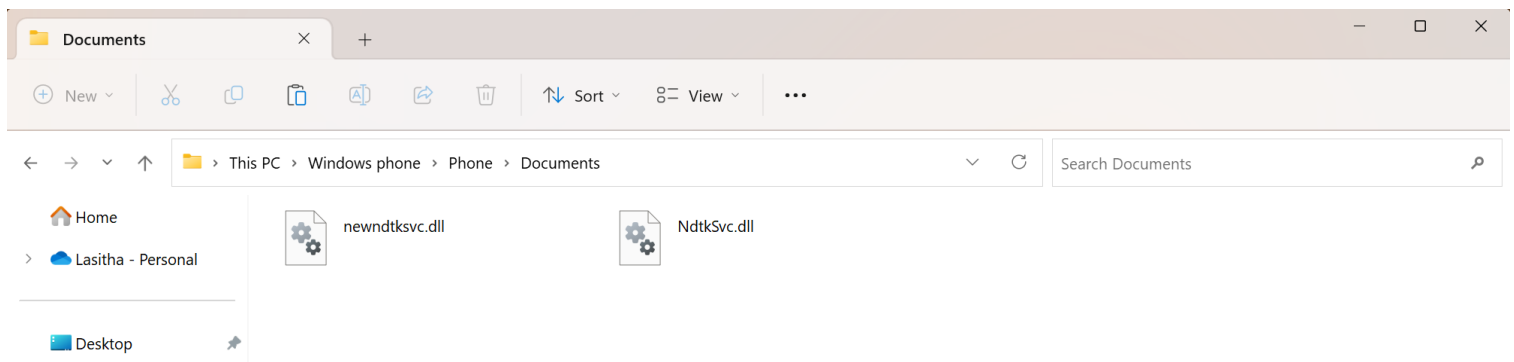
Done!

Now to take care of pushing the ACER SPKG file.

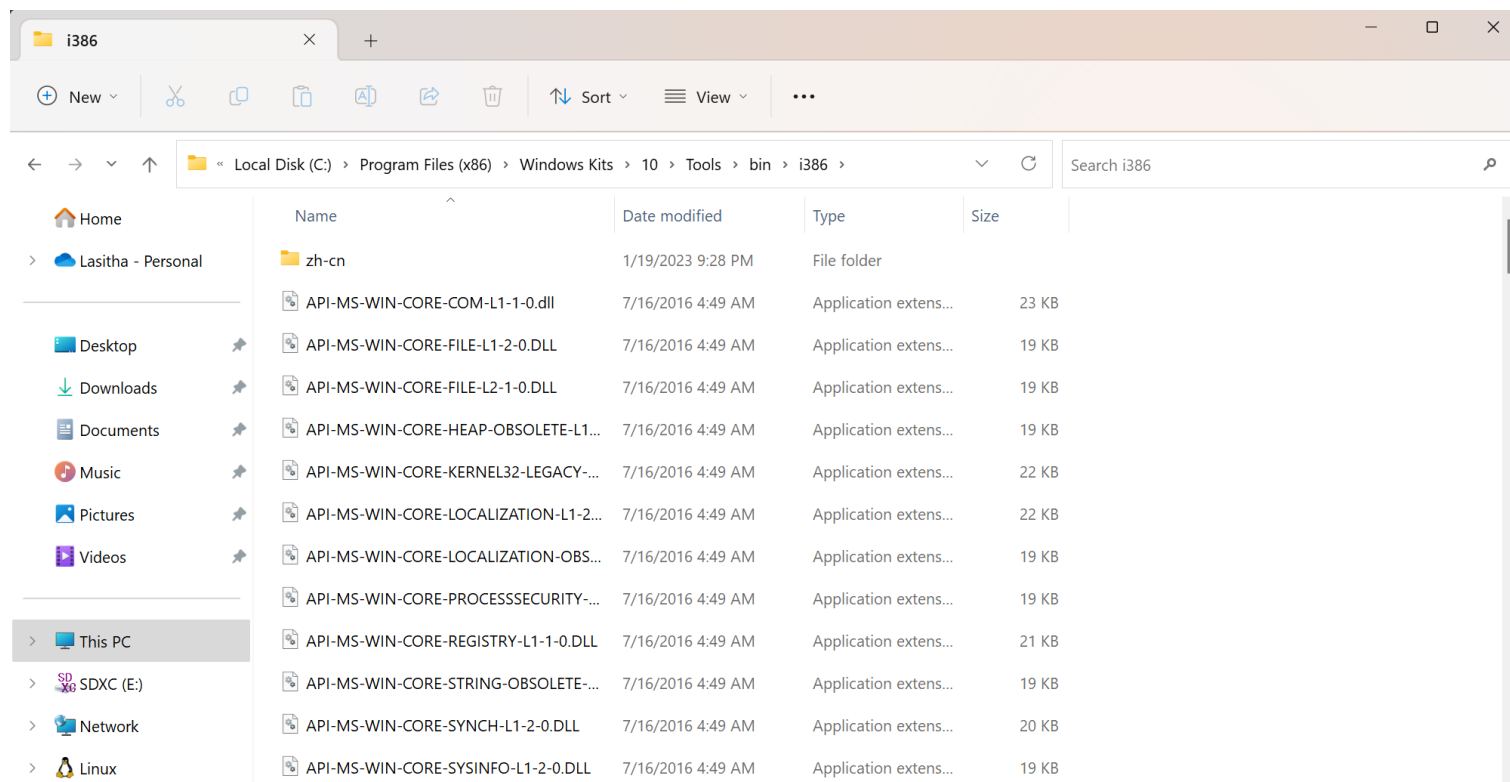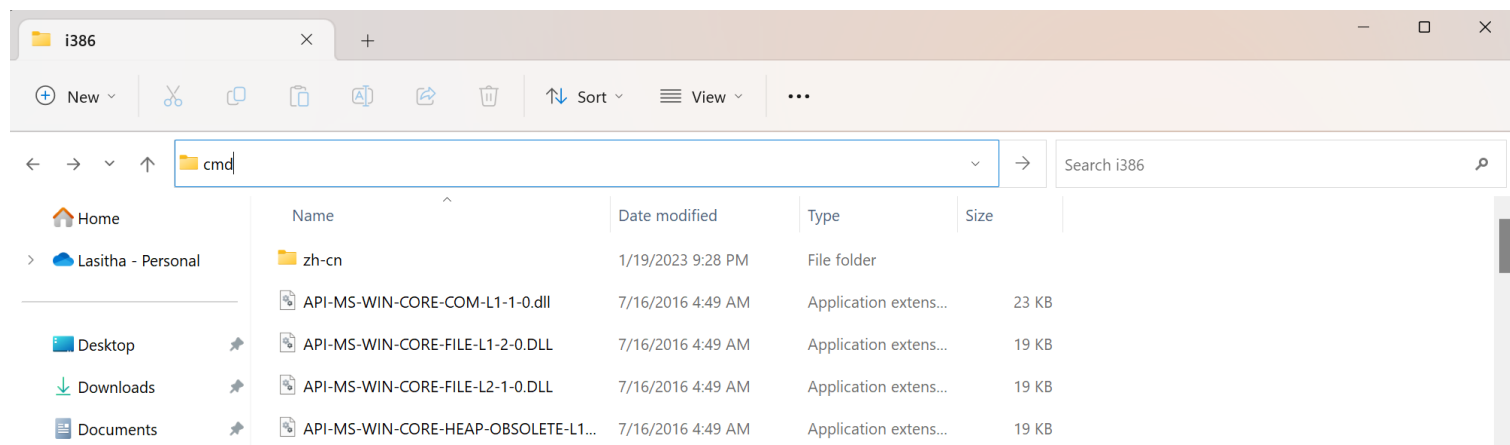> Open File explorer of your PC and navigate to the below path;

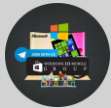**C:\Program Files (x86)\Windows Kits\10\Tools\bin\i386**

(Will not exist if you didn't install WP Common packaging tools as in preparations)

Click on the address bar and type **CMD**.

Then press enter.

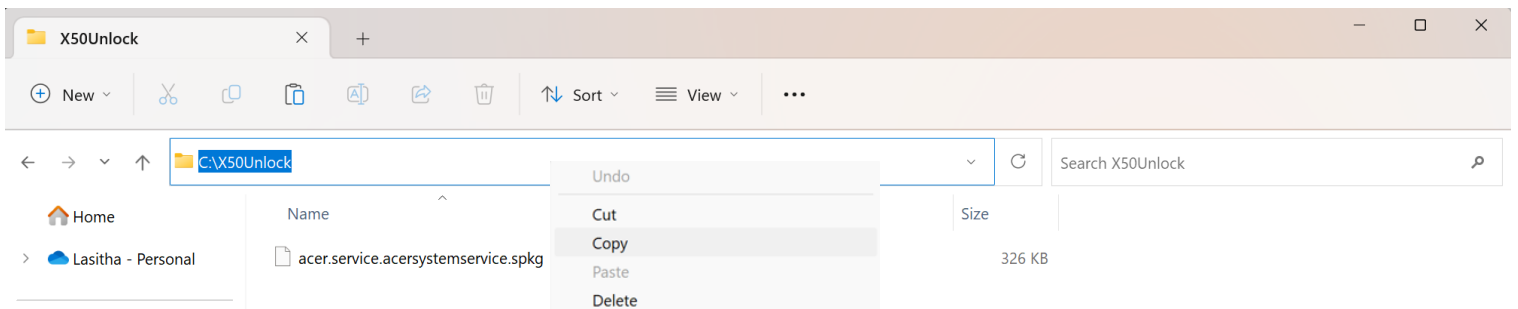> That will open a Command prompt window in that directory.

```
C:\Windows\System32\cmd.e    ×    +    ∨                                    —    □    ×

Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files (x86)\Windows Kits\10\Tools\bin\i386>
```

Now what we have to do is to push the **acer.service.acersystemservice.spkg** file to your X50 Lumia device which we underline downloaded in Preparations.

> Go to the folder where the ACER SPKG is.

Copy it's path.

(*Since we moved the two DLL files to your Lumia before, **now the folder should only have the SPKG file, it's a must**!*)

```
📁 X50Unlock          ×    +                                    —    □    ×

⊕ New  ∨    ✂    ⧉    📋    🄰    ↗    🗑    ↑↓ Sort ∨    ☰ View ∨    •••

←  →  ∨  ↑    📁 C:\X50Unlock                   ∨    ↻    Search X50Unlock    🔎

                                      Undo
🏠 Home           Name                Cut                        Size
> ☁ Lasitha - Personal  📄 acer.service.acersystemservice.spkg  Copy    326 KB
                                      Paste
                                      Delete
```

Back to the command prompt window.

> Now start typing the below command;

Iutool -v -p "C:\X50Unlock"

(*Replace the **C:\X50Unlock** if you placed the files elsewhere unlike Instructed in Preparations*)

```
C:\Windows\System32\cmd.e    ×    +    ∨                                    —    □    ×

Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files (x86)\Windows Kits\10\Tools\bin\i386>iutool -v -p "C:\X50Unlock"
```
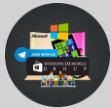
> Re-check the command to see if the **syntax** & the **path** is correct.

When done, press enter to start pushing the SPKG to phone!

```
(IUTool Version: 13:54:04/Apr 29 2015)

Log file: C:\Users\lasit\AppData\Local\Temp\IUTool-{299338D7-E9AD-4D02-BD74-B341894FDEEF}.etl

[1] Started device 2469e17ab043ecdcd34801796d70555e
[1] Transferring files started
[1] Transferring files complete: 1 file
[1] Update started
```

If there are no errors, your **phone will reboot in a matter of seconds**.

Then the phone will boot to the update OS (*Rotating cogs*) and the installation will begin.

You will have a progress bar to monitor the installation although the installation will not take more than a couple of minutes.

Common iutool Error Codes…

Error Code: 0x80070490 / 0x8007005

If you receive this error, disconnect your phone from PC.

> Go to *Control Panel → Devices and Printers*, find your windows phone, right click on it and click "Remove device".

> Then re-connect phone to PC and re-run the Command, the SPKG will be pushed without errors.

Error Code: 0x8007003

If you receive this error, then that can be due to two reasons mainly;

• You haven't clicked **STEP 1** in **VCREG** application.

• The bootloader of the phone is unlocked; if so, **re-lock it**.

Getting a different error?

Check in the Iutool error code list: IUTool error codes - Windows 10 hardware dev | Microsoft Learn
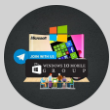
> Once the phone boots back after the update installation, go back to **X50 Unlock page in VCREG**.

Now, press **STEP 2**.

(*Before pressing that, make sure you have placed the two DLL files in Documents folder which we have done previously*)

> Step 2

It will ask you to reboot the phone, do it.

> After the reboot, go back there and click **STEP 3** now.

> Step 3

Reboot the device again.

> Again after the phone boots back, go to the same page in VCREG application, there;

Tick both;

Live Interop/Capability Unlock

Restore NDTKsvc 950/XL

And click **Apply**.

That is the end of the VCREG Unlock part of the guide.

Next is the Interop Tools Unlock part!

x50 series unlock

Apply steps 1,2,3 before interop unlocking

Step 1

Step 2

Step 3

Live Interop/Capability Unlock ☑

Restore NDTKsvc 950/XL ☑
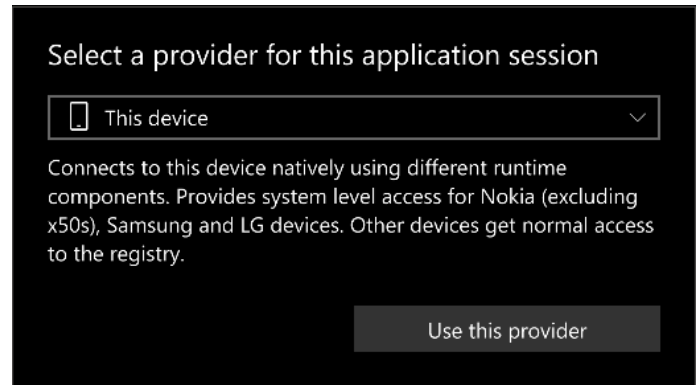Use on 950 or 950 XL only

Apply

PART 2: Interop Tools Unlock

> Open Interop Tools application.

> Choose **This Device** as the provider.

(Do not choose *This Device (Through provider extentions)*)
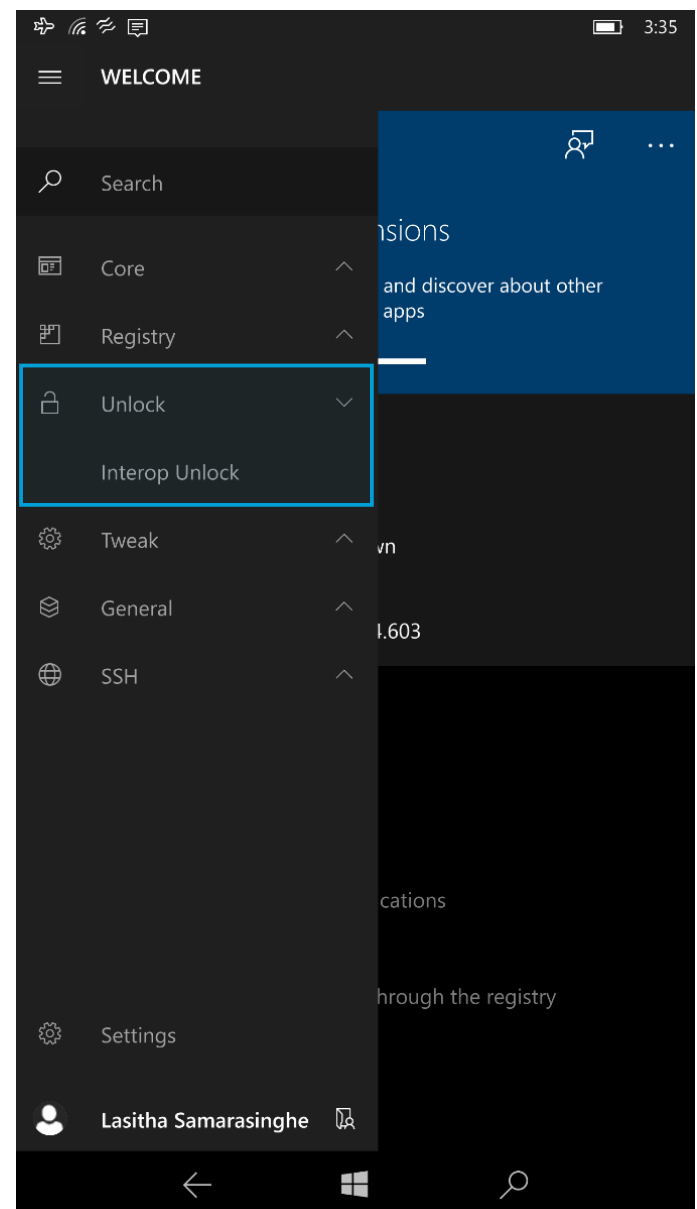

> Then, expand the the hamburger menu (Side menu)

Expand the **Unlock** section.

Click **Interop Unlock** entry.

That will take you to the Interop Unlock page.

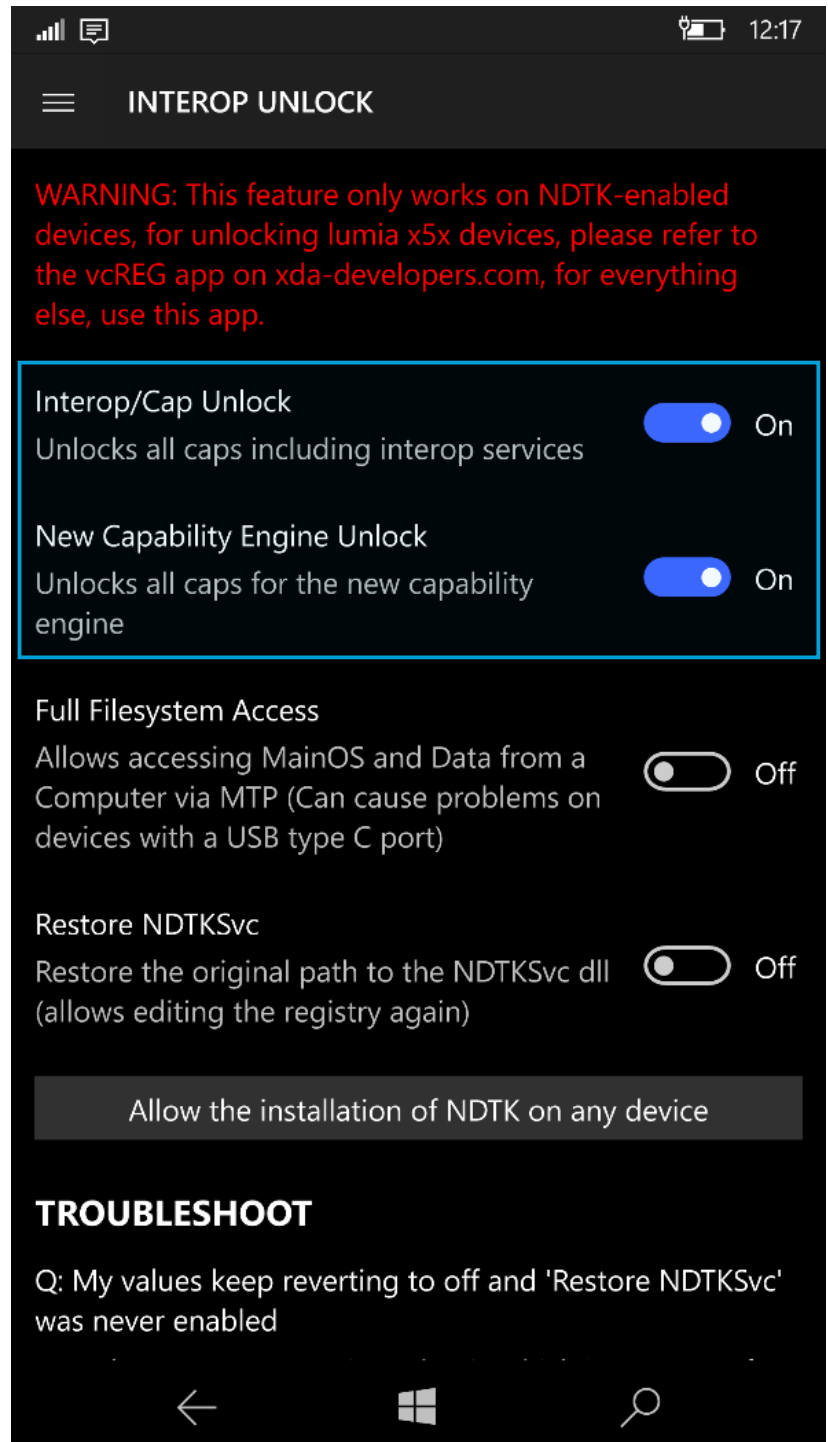> Now, activate only the first and the second toggles which are;
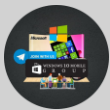
Interop/Cap Unlock

New Capability Engine Unlock

WARNING!

*DO NOT ENABLE **Restore NDTKSvc** TOGGLE IN ANY X50 SERIES LUMIA DEVICE.*

That's all for the X50 series Unlock, you now have a completely Interop Unlcoked X50 Lumia!!

Frequently Asked Questions (FAQ)

Q. How to turn off Interop Unlock?

A. Once turned ON, it's tricky to turn it off, but **there is no reason to turn it OFF cause Interop Unlock doesn't create any problems with the OS or it's functionality.**

Q. If I hard reset the phone, will I lose Interop Unlock?

A. Yes, but if you want to re-enable, just go to Interop Unlock page and re-enable *Interop/Cap Unlock* & *New Capability Engine Unlock* toggles, all the previous steps involving vcreg isn't needed to re-do.
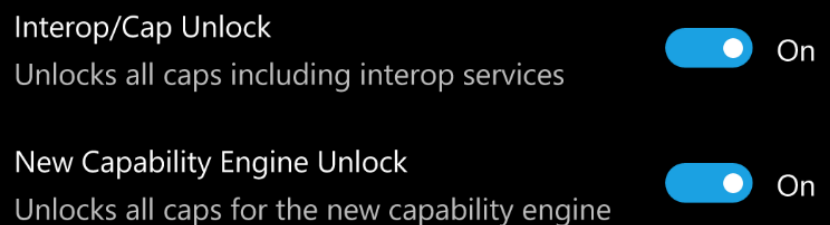
Q. If I re-flash the phone, will I lose Interop Unlock?

A. Yes, you will **lose it completely** and need to **do this guide from the beginning to have it back enabled**.

Q. What does Full FileSystem Access toggle do?

A. This an **optional** toggle, it is used to get limited read & write access to **C** Drive (**MainOS)** via the MTP connection to PC.

It is not very useful and can glitch the USB connection in USB Type-C devices as well so *it's not recommended to enable*.

Q. When enabling *Interop/Cap Unlock* and *New Capability engine unlock* in Interop tools, the app shows "**Working**" in status bar and seems stuck doing it, what is the cause?

A. You have to use Interop Tools **2.0.95** OR **2.1.24** version, all other older versions are not compatible.

Q. Interop/Cap Unlock toggle in Interop tools is **turned off after a reboot**, but other toggles are turned ON, is that an issue?

A. NO, you don't have to worry about it if that happened, the unlock is still enabled.
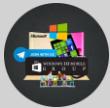
End notes

- This classic X50 Unlock method doesn't require Bootloader Unlock.

- DO NOT Skip any steps!

- After Interop Unlocked, you can then use any Interop Tools application version you want.

Credits

- ✓ Vcfan for VCREG

- ✓ Gustave Monce for Interop Tools

That is all for this Guide!

THANK YOU!!

Lasitha Samarasinghe